## CLAIMS

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Teptide comprising an epitope recognized by anti-filaggrin autoantibodies present in serum from rheumatoid arthritis patients, characterized in that said epitope comprises a tripeptide motif centred on a citrulline residue, which is specifically present on at least one of the citrullinated peptides derived from the sequences SEQ ID NO: 3, SEQ ID NO: 5 or SEQ ID

NO: 6.

Wherein

The Peptide according to Claim 1, characterized in comprises

that it comprises the tripeptide motif Ser-Cit-His in which Cit represents a citrulline residue.

anti-filaggrin autoantibodies present in serum from rheumatoid arthritis patients, characterized in that it comprising comprises of at least one peptide according to either of claims 1 and 2.

4) Use of an antigen according to any one of Claims 1 to 3 for diagnosing rheumatoid arthritis in vitro.

5) In Lity enic composition for diagnosing the presence of rheumatoid arthritis-specific autoantibodies in a biological sample, characterized in that it composition at least one antigen according to any one of claims 1 which is optionally labolled with and/or conjugated to a carrier molecule.

6) method for detecting rheumatoid arthritisspecific autoantibodies in a biological sample, ethis method being characterized in that it comprises:

- bringing said biological sample into contact with at least one antigen according to any one of claims 1 to 3 under conditions which allow the formation of an antigen/antibody complex with the rheumatoid arthritis-specific autoantibodies possibly present;

- detecting, by any suitable means, the antigen anti-

7) For detecting rheumatoid arthritis-specific autoantibodies in a biological sample, characterized in

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